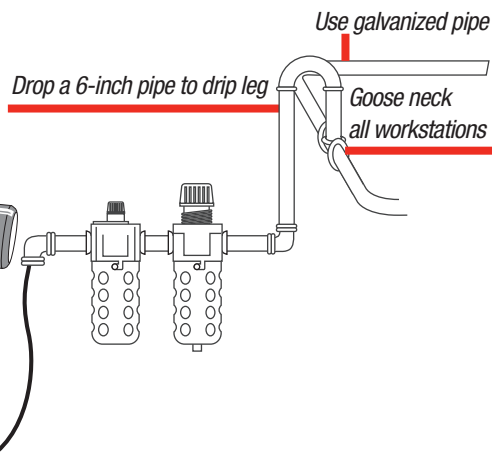


## Important Steps to an Air System Setup

1. Main-line filter and regulator should be installed at least 20-feet from the compressor. The air will cool down, allowing much of the water vapor to condense naturally for removal by filtration.
2. All line drops (workstations) should be taken from the top of the main line. This prevents water from flowing into branch lines.
3. Galvanized pipe is recommended when building an air system.



Follow illustration to the right when building a workstation drop.

## Air Equipment Estimating Guide

Always use free air (CFM) and pressure (PSI) specifications from the nameplate on the device or from the manufacturer. Free air figures (in the table below) are averages and may differ by specific brand.

INDUSTRIAL EQUIPMENT CFM REQUIREMENTS BASED ON NORMAL USAGE		AUTOMOTIVE EQUIPMENT CFM REQUIREMENTS BASED ON TOOLS BEING USED 25% OF THE TIME		
<b>Miscellaneous Portable Tools at 70 to 90 PSI</b>		<b>Portable Tools</b>	<b>Equipment PSI Range</b>	<b>CFM</b>
Drill, 1/8" to 3/8"	6.3	Air Filter Cleaner	70 to 100	3.0
Drill, 3/8" to 5/16"	8.8	Body Polisher	70 to 100	2.0
Screwdriver, #2 to #6 Screw	3.0	Body Sander, Orbital	70 to 100	5.0
Screwdriver, #6 to 5/16" Screw	6.0	Brake Tester	70 to 100	3.5
Tapper, to 3/8"	5.0	Carbon Remover	70 to 100	3.0
Nutsetters, to 3/8"	6.0	Dusting Blow Gun	90 to 100	2.5
Nutsetters, to 3/4"	7.5	Drill, 1/16" to 3/8"	70 to 90	4.0
Impact Wrench, 1/4"	3.8	Impact Wrench, 3/8" Square Drive	70 to 90	2.0
Impact Wrench, 3/8"	5.0	Impact Wrench, 1/2" Square Drive	70 to 90	3.5
Impact Wrench, 1/2"	7.5	Impact Wrench, 3/4" Square Drive	70 to 90	7.5
Impact Wrench, 3/4"	8.8	Impact Wrench, 1" Square Drive	70 to 90	10.0
Impact Wrench, 1 1/4"	13.8	Die Grinder	70 to 90	5.0
Die Grinder, Small	3.8	Vertical Disc Sanders	90 to 100	10.0
Die Grinder, Medium	6.0	Filing/Sawing Machine, Small	90 to 100	3.0
Horizontal Grinder, 2"	5.0	Filing/Sawing Machine, Large	90 to 100	5.0
Horizontal Grinder, 4"	15.0	Burring Tool	90 to 100	5.0
Horizontal Grinder, 6"	15.0	Tire Rim Stripper	125 to 150	6.0
Horizontal Grinder, 8"	20.0	Tire Changer	125 to 150	5.5
Vertical Grinders and Sanders, 5" Pad	8.8	Tire Inflation Line	125 to 150	1.5
Vertical Grinders and Sanders, 7" Pad	15.0	Tire Spreader	125 to 150	1.0
Vertical Grinders and Sanders, 9" Pad	17.5	Air Hammer	90 to 100	4.0
Burring Tool, Small	3.8	Tire Hammer	90 to 100	12.0
Burring Tool, Large	6.0	Bead Breaker	125 to 150	12.0
Rammers, Small	3.3	Spring Oiler	90 to 100	4.0
Rammers, Medium	8.5	Spray Gun Engine Cleaner	90 to 100	5.0
Rammers, Large	10.0	Production Paint Spray Gun	90 to 100	8.5
Backfill Tamper	6.3	Touch-Up Paint Spray Gun	90 to 100	3.5
Compression Riveter	0.2 cu. ft. per cycle	Undercoat Paint Spray Gun	90 to 100	19.0
Nailers and Staplers	5.0 to 8.0	Grease Gun	120 to 150	3.0
Riveter	6.0	Hydraulic Lift	145 to 175	6.0
Paint Spray Gun	5.0	Hydraulic Floor Jack	125 to 150	6.0
Scaling Hammer	3.0	Pneumatic Garage Door	120 to 150	3.0
Chipping Hammer	7.5	Radiator Tester	90 to 100	1.0
Riveting Hammer	7.5	Transmission/Differential Flusher	70 to 100	3.0
Circular Saw, 8"	11.3	Fender Hammer	70 to 100	9.0
Circular Saw, 12"	16.3	Medium-Duty Sander	70 to 100	40.0
Lightweight Chain Saw	7.0			
Heavy-Duty Chain Saw	21.8			